Notice of Allowability    Application No.   Applicant(s)				AIC
Notice of Allowability    Examiner		Application No.	Applicant(s)	
Notice of Allowability    Examiner	Notice of Allowability	10/789,851	VANDERPOOL ET AL.	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address-all aims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously malled), a Notice of Novamone (PTOL-85) or other appropriate communication with be malled in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initia of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.  1. ☑ This communication is responsive to amendment filed 11/04/2005.  2. ☑ The allowed claim(s) is/are 1,2 and 4-5.  3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No.  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  **Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  **THIS THREE MONTH PERIOD IS NOT EXTENDABLE.**  4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1 ☐ hereto or 2 ☐ to Paper No./Mail Date  identifying indicias such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be tabele		Examiner	Art Unit	
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-95) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initial of the Office or upon petition by the applicant. See 3 CPC RT 1313 and MPEP 1308.  1. ☑ This communication is responsive to **mendment filed 11/04/2005*.  2. ☑ The allowed claim(s) is/are 1,2 and 4-6.  3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☑ All b) ☑ Some* c) ☑ None of the:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  *Certified copies not received:  Applicant has THREE MONTHY ERIOD IS NOT EXTENDABLE.  Applicant has THREE MONTHY ERIOD IS NOT EXTENDABLE.  4. ☑ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.  5. ☑ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.  (a) ☑ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  1) ☑ hereto or 2 ☑ to Paper No./Mail Date  (b) ☑ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (b) ☑ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date  (c) ☑ including changes required by the attached Examiner's Amendment / Comment or the order of References Cited (PTO-892)  5. ☑ Notice of Informati		Asok K. Sarkar	2891	
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Art Unit: 2891

# **DETAILED ACTION**

Page 2

# Response to Amendment

1. Applicant's explanation of the instant invention in pointing the difference with the cited prior art was found to be persuasive.

# **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In view of the Applicant's response to election requirement dated July 25, 2005, the election was treated as being made without traverse and claims 14 – 17 were withdrawn for examination. In view of the following claims being allowed, the nonelected claims, 14 – 17 are cancelled by the Examiner.

The application has been amended as follows:

Claims 14 – 17 have been cancelled.

### Allowable Subject Matter

- 3. Claims 1, 2 and 4 6 are now allowed.
- 4. The following is an examiner's statement of reasons for allowance:

Claims 1, 2 and 4 - 6 recite, inter alia, a method comprising forming a source drain extension by implanting boron, and fluorine and implanting fluorine to a depth deeper than boron. The art of record does not disclose or anticipate the above

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limitation in combination with other claim elements nor would it be obvious to modify the art of record so as to form a device including the above limitation.

#### Conclusion

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ono, US 6,436,783 teaches implanting fluorine ions during the formation of MOS transistor with source/drain extension regions.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 571 272 1970. The examiner can normally be reached on Monday Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William B. Baumeister can be reached on 571 272 1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Asok K. Sarkar

November 11, 2005

**Primary Examiner**